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Figure 1

	The length of the piano gland and the predicted value with frequency							
	①0.3mm		②0.5mm		③1.0mm		④0.3mm scale data	
	f Hz	length mm	f Hz	length mm	f Hz	length mm	f Hz	length mm
1	185	33.1	185	46.8	185	53.9	246.9	28.6 H
2	190	32.7	190	46.1	190	53.2	261.6	27.8 C
3	195	32.3	195	45.6	195	52.5	277.2	26.9 Des
4	200	31.8	200	45.0	200	51.8	293.7	26.2 D
5	205	31.4	205	44.4	205	51.2	311.1	25.4 Es
6	210	31.1	210	43.9	210	50.5	329.6	24.7 E
7	215	30.7	215	43.4	215	49.9	349.2	23.9 F
8	220	30.3	220	42.9	220	49.4	370.0	23.2 Fs
9	225	30.0	225	42.4	225	48.8	392.0	22.5 G
10	230	29.7	230	42.0	230	48.2	415.3	21.9 As
11	235	29.3	235	41.5	235	47.7	440.0	21.2 A
12	240	29.0	240	41.1	240	47.2	465.2	20.6 Bb
13	245	28.7	245	40.7	245	46.7	493.9	20.0 H
14	250	28.4	250	40.3	250	46.2	523.3	19.4 C
15	255	28.1	255	39.9	255	45.8	554.4	18.8 Des
16	260	27.8	260	39.5	260	45.3	587.3	18.3 D
17	265	27.6	265	39.2	265	44.9	622.3	17.8 Es
18	270	27.3	270	38.8	270	44.4	659.3	17.2 E
19	275	27.1	275	38.4	275	44.0	698.5	16.7 F
20	280	26.8	280	38.1	280	43.6	740.0	16.2 Fs
21	285	26.6	285	37.8	285	43.2	784.0	15.7 G
22	290	26.3	290	37.5	290	42.8	830.6	15.3 As
23	295	26.1	295	37.1	295	42.5	880.0	14.8 A

table computed experimental value in the regression

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Figure 2

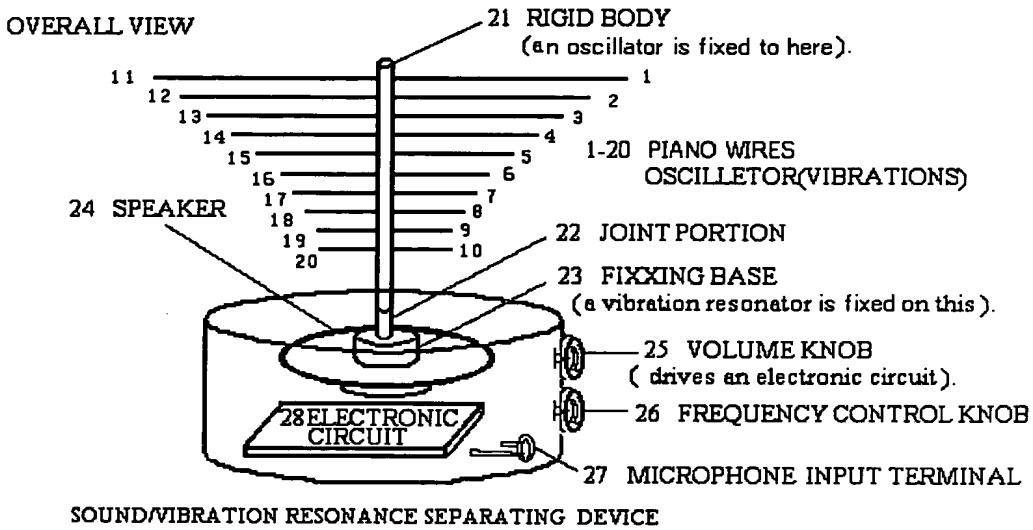
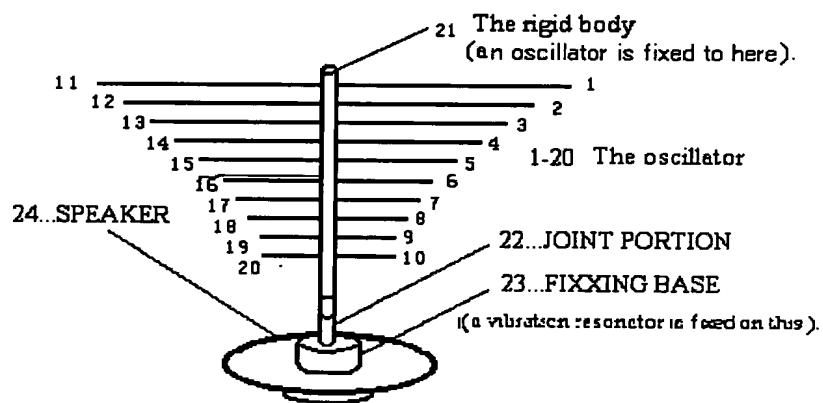


Figure 3



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Figure 4

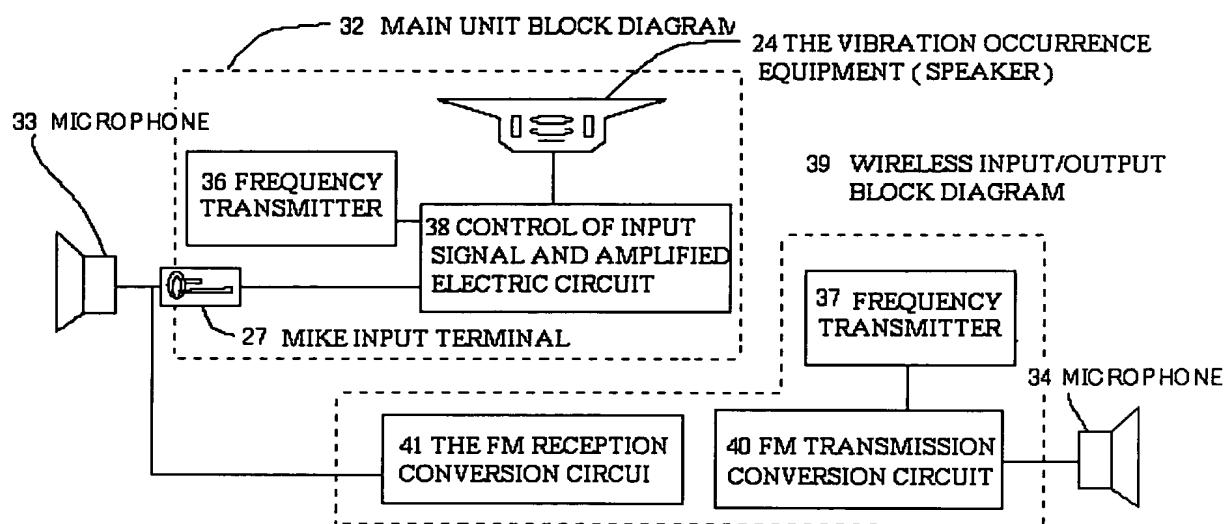
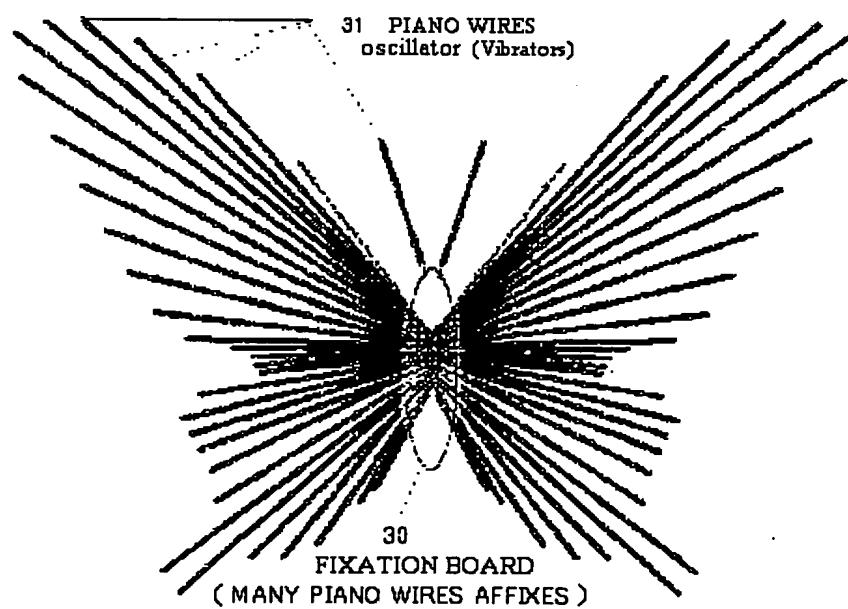


Figure 5



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Figure 6

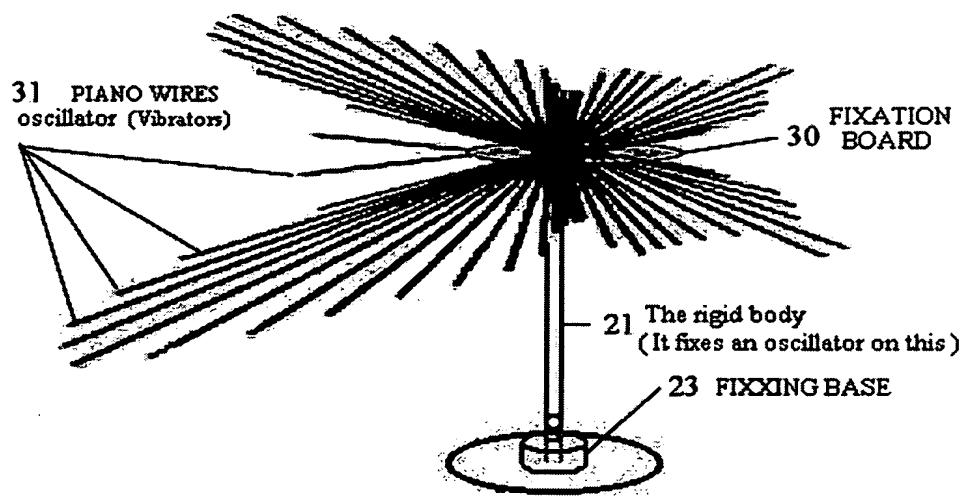
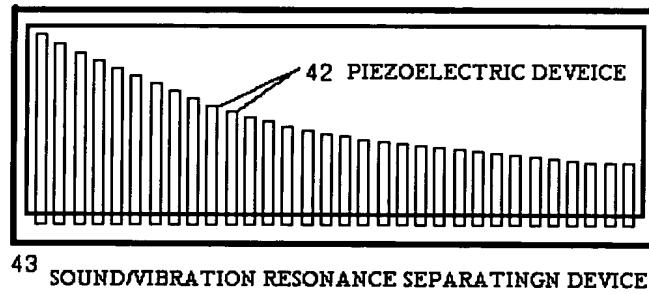
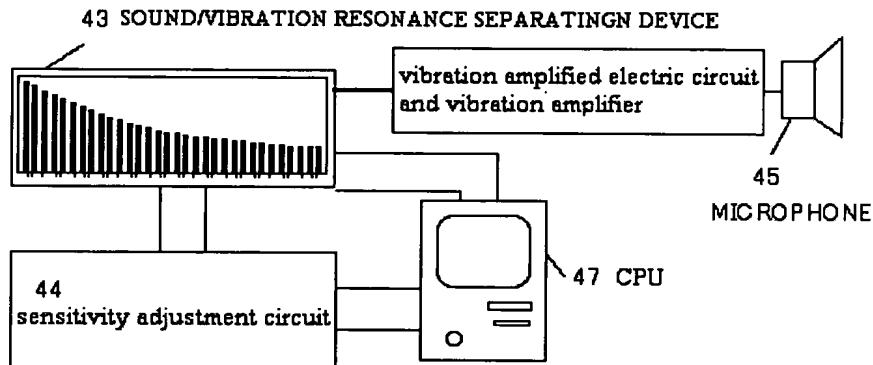


Figure 7



43 SOUND/VIBRATION RESONANCE SEPARATINGN DEVICE

Figure 8



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